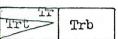
EXPLANATION

(Applies only to rocks north of the Strawberry Range)

Alluvium

Mainly valley fill consisting of silt, sand, and gravel. Source of water in shallow wells only.



Rattlesnake Formation

Poorly sorted bouldery to clayey deposits forming extensive pediments south of the John Day River and irregular smaller benches north of it Trb, deposits containing numerous boulders two feet or more in size, mostly higher than the Rattlesnake

Trt, Rhyolite tuff member. Exposed in vicinity of John Day and just east of Grub Creek. This formation is the most promising source of groundwater in the John Day River valley east of

Formation proper

Columbia River Group-Strawberry Volcanics Flows of basaltic to rhyolitic composition interbedded with mudflow breccia, bedded volcanic ash, and some conglomerate.

Source of water in all three John Day City wells, and may contain highly productive zones elsewhere

Clarno Formation Mostly andesite flows and breccias north and east of Prairie City.

Not promising as source of groundwater because of impermeability in this area

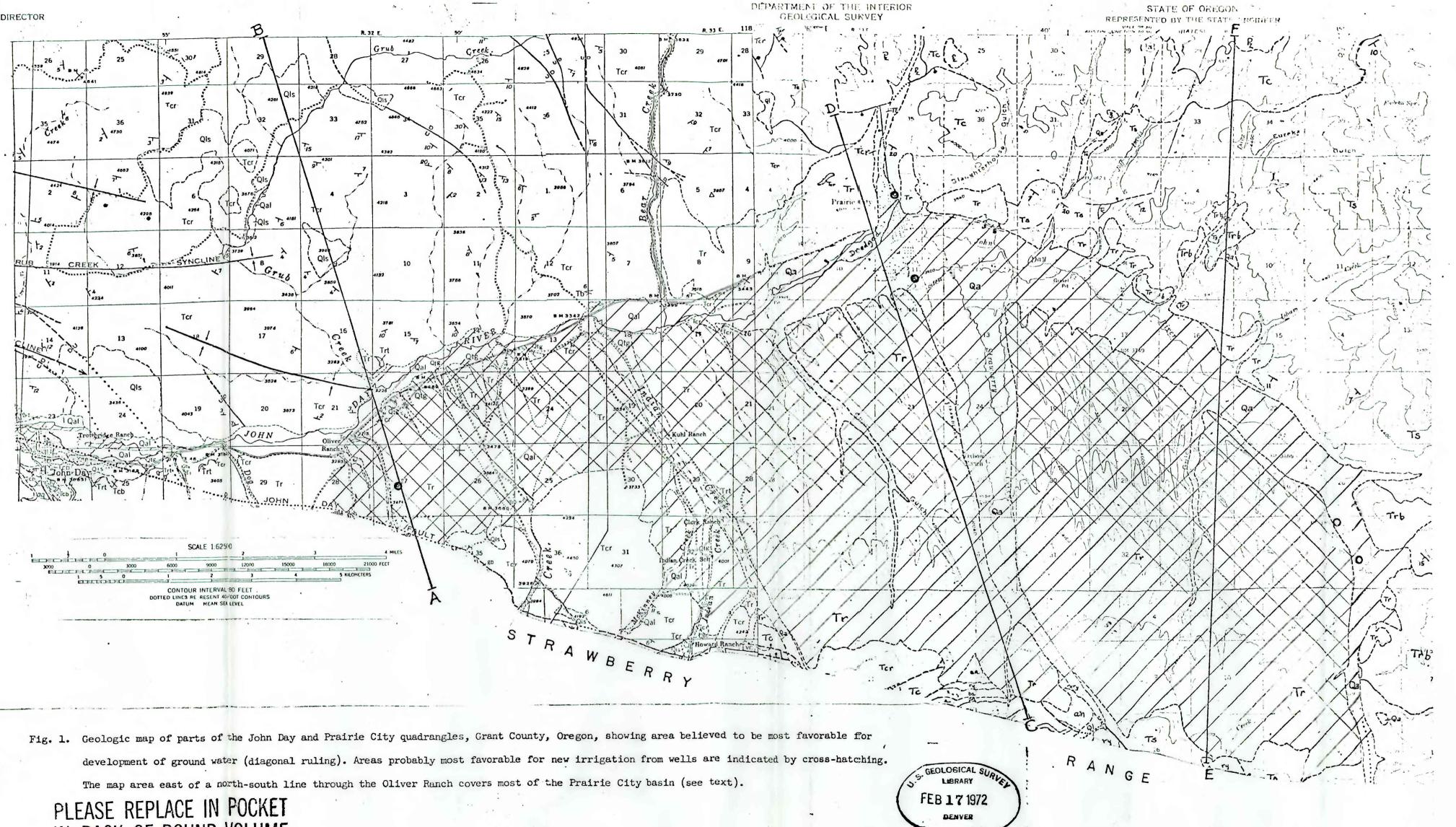
> Contact Dashed where approximately located

Fault Dashed where approximately located, dotted where concealed. Bar and ball

on downthrown side

Strike and dip of beds or lava flows

Well Approximately located.



IN BACK OF BOUND VOLUME